

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> ( Not for submission under 37 CFR 1.99)	Application Number		10057816	
	Filing Date		2002-01-24	
	First Named Inventor	Ronald L. Mahany		
	Art Unit	2685		
	Examiner Name	Vo, Nguyen Thanh		
	Attorney Docket Number	14419US01		

## U.S. PATENTS

Remove

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/NV/	1	5491727	A	1996-02-13	Petit	
/NV/	2	5029183	A	1991-07-02	Tymes	
/NV/	3	4930140	A	1990-05-29	Cripps et al	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

## U.S. PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

## FOREIGN PATENT DOCUMENTS

Remove

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10057816
Filing Date	2002-01-24
First Named Inventor	Ronald L. Mahany
Art Unit	2685
Examiner Name	Vo, Nguyen Thanh
Attorney Docket Number	14419US01

If you wish to add additional Foreign Patent Document citation information please click the Add button

**NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1		<input type="checkbox"/>

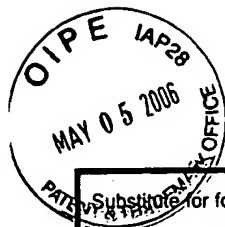
If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Nguyen Vo/	Date Considered	03/12/2007
--------------------	-------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.



PTO/SB/08A (08-03)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/057,816
Filing Date	January 24, 2002
First Named Inventor	Ronald L. Mahany
Group Art Unit	2685
Examiner Name	Nguyen Thanh Vo
Attorney Docket No.	14419US01

Sheet 1 of 1

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/NV/	A1	4,355,399	10-19-1982	Timor	
	A2	4,701,923	10-20-1987	Fukasawa et al.	
	A3	4,930,140	05-29-1990	Cripps	
	A4	4,939,731	07-03-1990	Reed	
	A5	4,984,247	01-08-1991	Kaufmann	
	A6	5,101,406	03-31-1992	Messenger	
	A7	5,142,550	08-25-1992	Tymes	
	A8	5,204,876	04-20-1993	Bruckert et al.	
	A9	5,278,866	01-11-1994	Nonami	
	A10	5,282,222	01-25-1994	Fattouche et al.	
	A11	5,321,721	06-14-1994	Yamaura	
	A12	5,577,087	11-19-1996	Furuya	
/NV/	A13	5,708,680	01-13-1998	Gollnick	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>

**OTHER ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published

EXAMINER SIGNATURE	/Nguyen Vo/	DATE CONSIDERED	03/12/2007
--------------------	-------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. Send TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1800-786-9199) and select option 2.

Rev. Sept. 03

J:\Open\phs\Broadcom (1772)\Qualcomm\Santa Ana 05-467 Litigation Statement & IDS\5,425,051 - Adaptive Parameters\Fee\14419US01\14419US01 PTO/SB/08A.doc

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>	
		Application Number	10/057,816
		Filing Date	January 24, 2002
		First Named Inventor	Ronald L. Mahany
		Group Art Unit	2685
		Examiner Name	Nguyen Thanh Vo
Attorney Docket No.	14419US01		
Sheet	1	of	2

OTHER ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/NV/	C1	FIFER et al., "The Low Cost Packet Radio", IEEE Proceedings, Vol. 75, No. 1, pp. 33-43, 01-1987
/NV/	C2	FISCHER et al., "Wide-Band Packet Radio For Multipath Environments", IEEE Transactions On Communications, Vol. 36, No. 5, pp. 564-576, 05/1988
/NV/	C3	FISCHER et al., "Wide-Band Packet Radio Technology", IEEE Proceedings, Vol. 75, No. 1, pp. 100-115, 01/1987
/NV/	C4	JACOBS, et al., "General Purpose Packet Satellite Networks", IEEE Proceedings, Vol. 66, No. 11, pp. 1448-1467, 11/1978
/NV/	C5	JACOBSMEYER J., "Adaptive Trellis Coded Modulation For Bandlimited Meteor Burst Channels", IEEE Journal on Selected Areas In Communications, Vol. 10, No. 3, pp. 550-561, 04/1992
/NV/	C6	JACOBSMEYER J., "Adaptive Information Rate Performance On Bandlimited Meteor Burst Channels: Empirical Results", Ninth Annual International Phoenix Conference On Computer and Communications, pp. 254-261, 03/21-23/1990
/NV/	C7	JACOBSMEYER J., Adaptive Trellis Coded Modulation For Bandlimited Meteor Burst Channels, Military Communications Conferences, MILCOM 89, Conference Record, Bridging the Gap. Interoperability, Survivability, Security, pp. 418-422, 10/15-18/1989
/NV/	C8	JACOBSMEYER J., An Adaptive Modulation Scheme For Bandwidth-Limited Meteor-Burst Channels, Military Communications Conference, MILCOM 88, Conference Record, 21 <sup>st</sup> Century Military Communications - What's Possible?, pp. 933-937, 10/23-26/1988
/NV/	C9	MASSOUMI, S. et al., "Adaptive Trellis Coded Modulation For Mobile Communications", IEEE Pacific Rim Conference on Communications, computers and signal Processing, pp. 538-541, 05/9-10/1991
/NV/	C10	SNYTKIN, I., Adaptive Communications Systems Employing Spread-Spectrum Signals Based On Nonlinear Recurrent Sequences, Telecommunications and Radio Engineering, Scripta Technica, Inc., Vol. 46, No. 3, pp. 161-162, 03/1991
/NV/	C11	CCITT Recommendation V.32bis, A Duplex Modem Operating At Data Signaling Rates Of Up To 14 400 bit/s For Use On The General Switched Telephone Network And on Leased Point-To-Point 2-Wire Telephone-Type Circuits (Study Group XVII), 02/22/1991
/NV/	C12	CCITT Recommendation V.32, A Family Of 2-Wire, Duplex Modems Operating At Data Signaling Rates Of Up To 9600 bit/s For Use On The General Switched Telephone Network And On Leased Telephone-Type Circuits-Data Communication Over The Telephone Network-Study Group XVII, pp. 234-251, 01/01/1989
/NV/	C13	VITERBI et al., "A Pragmatic Approach To Trellis-Coded Modulation", IEEE Communications Magazine, pp. 11-19, 07/1989
/NV/	C14	VITERBI et al., "Trellis-Coded MPSK Modulation For Highly Efficient Military Satellite Applications", Military Communications Conference, MILCOM 88, "21st Century Military Communications - What's Possible?", pp. 647-651, 10/23-26/1988

EXAMINER SIGNATURE	/Nguyen Vo/	DATE CONSIDERED	03/12/2007
--------------------	-------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. Send TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1800-786-9199) and select option 2.

Rev. Sept. 03

J:\Open\phs\Broadcom (1772)\Qualcomm\Litigation Statement & IDS Project\Santa Ana 05-467 Litigation Statement & IDS\5,425,051 - Adaptive Parameters\Supp IDS - Adaptive Parameters 5,425,051\Fee\14419US01\14419US01 Supp PTOSB08A.doc

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/057,816
				Filing Date	January 24, 2002
				First Named Inventor	Ronald L. Mahany
				Group Art Unit	2685
				Examiner Name	Nguyen Thanh Vo
				Attorney Docket Number	14419US01
Sheet	2	Of	2		

/NV/	C15	WEITZEN J., et al., "A High Speed Digital Modem For The Meteor Scatter Channel", Proceedings Of The Seventeenth Annual Conference On Information Sciences And Systems, p. 344-349, 03/23-25/1983
/NV/	C16	HANSSON U., et al., "Dual Rate Mobile Data System", IEEE International Symposium On Personal Indoor And Mobile Radio Communications, pp. 520-524, 10/19-21/1992
/NV/	C17	JUBIN et al., "The DARPA Packet Radio Network Protocols", IEEE Proceedings, Vol. 75, No. 1, pp. 21-32, 01/1987
/NV/	C18	Product Brochures (BCMSA002314-2345)
/NV/	C19	Amended Preliminary Invalidity Contentions with Exhibit C, 02/21/2006

EXAMINER	/Nguyen Vo/	DATE CONSIDERED	/Nguyen Vo/
----------	-------------	-----------------	-------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Rev. Aug. 02

J:\Open\phs\Broadcom (1772)\Qualcomm\Litigation Statement & IDS Project\Santa Ana 05-467 Litigation Statement & IDS\5,425,051 - Adaptive Parameters\Supp IDS - Adaptive Parameters 5,425,051\Fee\14419US01\14419US01 Supp PTOSB08A.doc